

DK-US065052

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Takeshi HIKAWA et al.

Serial No.: New – (National Phase of
PCT/JP2004/015680)

International filing date: October 22, 2004

For: METHOD FOR ESTIMATING
DC MOTOR COIL TEMPERATURE,
DC MOTOR CONTROL METHOD
AND THEIR DEVICES**INFORMATION DISCLOSURE STATEMENT**Assistant Commissioner of Patents
Washington, DC 20231

Sir:

In accordance with MPEP 609 and 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicants bring the references listed on the attached PTO-1449-Form to the Examiner's attention and request that they be considered and made of record in this application. Copies of the non-U.S. patents are attached.

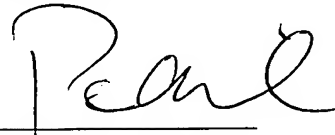
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Japanese Patent Publication No. 1-248927 appears to disclose a vehicle steering system with a motor controller that detects a malfunction of a motor irrespective of the amplitude of a current by discriminating the malfunction according to the value of a DC imaginary resistance obtained on the basis of the duty ratio of a current, an applied voltage and a PWM signal to a DC motor. An English abstract is provided to better understand this reference. The international search report indicates that this reference is relevant to claims 1-28 of the international application and cites page 2, lower left column, line 12 to lower right column, line 3 as being relevant.

* * *

Prompt examination on the merits is respectfully requested.

Respectfully submitted,



Patrick A. Hilsmier
Reg. No. 46,034

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Dated: April 21, 2006

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Complete if Known

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|------------------------|---------------------------------------|
| Application Number | PCT/JP2004/015680 |
| Filing Date | International date - October 22, 2004 |
| First Named Inventor | Takeshi HIKAWA et al. |
| Group Art Unit | |
| Examiner Name | |
| Attorney Docket Number | DK-US065052 |

(use as many sheets as necessary)

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|-------|---|----|---|
| Sheet | 1 | of | 1 |
|-------|---|----|---|

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| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁶ |
|--------------------|-----------------------|--|--------------------------------|---|---|----------------|
| | | Country Code ³ - Number ⁴ - Kind Code ⁵ (<i>if known</i>) | | | | |
| | | JP-1-248927 A | 10-04-1989 | Nakajima | | No |
| | | JP-2002-22813 A | 01-23-2002 | Fujii et al. | | Yes |
| | | JP-2002-367307 A | 12-20-2002 | Takeda et al. | | Yes |
| | | JP-2003-009589 A | 01-10-2003 | Kagimura et al. | | Yes |
| | | EP 1 312 932 | 05-21-2003 | Fujii et al. | | N/A |
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Date
Considered

³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.